

Abstract of the Disclosure

A system to detect epithelial dysplasia is disclosed by examining cells obtained by a non-lacerational trans-epithelial device. The system selects suspect cells based on abnormal morphology, cytometry and/or using molecular diagnostic techniques. In a preferred embodiment, the results of the computer analysis are displayed as a histogram and the images of the suspect cells are reviewed for DNA ploidy by a pathologist on a cell by cell basis..